

WHAT IS CLAIMED IS:

1    1. An electronic device with a display connector,  
2 comprising:  
3       a body having a mounting portion;  
4       a display member responsive to a picture signal to display a  
5       corresponding image, detachably installed with respect to  
6       said body;  
7       a pair of rotation pins rotatably installed in said mounting  
8       portion;  
9       a pair of fixing brackets provided in said display member to  
10      correspond to said rotation pins, and coupled to said  
11      rotation pins when said display member and said body are  
12      connected so as rotate along with said rotation pins;  
13      means for maintaining connection between said fixing brackets  
14      and said rotation pins, defining locking means;  
15      means for canceling connection between said fixing brackets  
16      and said rotation pins, defining unlocking means;  
17      a light emitting module coupled to one of said rotation pins  
18      to be rotated therewith, and having a laser diode array  
19      for independently radiating light according to a driving  
20      signal; and

21       a light receiving module, installed in said display member,  
22       receiving said picture signal from said light emitting  
23       module when said display member is mounted on said body.

1       2. The electronic device according to claim 1, wherein said  
2       locking means comprises:

3       a locking groove formed in a head of said rotation pin;  
4       a locking member movably installed in said display member to  
5       move toward and couple to said locking groove when said  
6       display member is connected to said body; and  
7       a spring for elastically pressing said locking member toward  
8       said locking groove.

1       3. The electronic device according to claim 2, wherein said  
2       unlocking means comprises:

3       a guide hole formed in said display member; and  
4       an unlocking lever having one end coupled to said locking  
5       member and another end slidably installed in said guide  
6       hole.

1       4. The electronic device according to claim 1, wherein said  
2       mounting portion protrudes from one plane of said body, and  
3       said rotation pins are symmetrically installed at both ends of  
4       said mounting portion.

1       5. The electronic device according to claim 1, wherein said  
2 light emitting module is installed between said pair of  
3 rotation pins.

1       6. The electronic device according to claim 1, wherein each  
2 of said rotation pins has a predetermined fastening portion  
3 having a rectangular cross section at one end, each of said  
4 fixing brackets has a predetermined fastening groove formed to  
5 correspond to the shape of said cross section of said  
6 fastening portion, and said rotation pin and said fixing  
7 bracket rotate together in a state where said fastening  
8 portion and said fastening grooves are connected.

1       7. An electronic device, comprising:  
2           a body having rotation pins;  
3           a display having fixing brackets and displaying an image  
4           based on a picture signal;  
5           a lock selectively locking and unlocking said fixing brackets  
6           to said rotation pins;  
7           a light emitting module coupled to one of said rotation pins  
8           to be rotated therewith;  
9           a light receiving module in said display, receiving said  
10          picture signal from said light emitting module.

1       8. The electronic device according to claim 7, wherein said  
2 lock comprises, for said locking:

3       a locking groove formed in a head of one of said rotation  
4       pins;  
5       a locking member movably installed in said display to move  
6       toward and couple to said locking groove when said display  
7       is connected to said body; and  
8       a spring elastically pressing said locking member toward said  
9       locking groove.

1       9. The electronic device according to claim 8, wherein lock  
2 comprises, for said unlocking:

3       a guide hole formed in said display; and  
4       an unlocking lever having one end coupled to said locking  
5       member and another end slidably installed in said guide  
6       hole.

1       10. The electronic device according to claim 7, wherein said  
2 rotation pins are mounted in said body at a mounting portion  
3 protruding from one plane of said body, and said rotation pins  
4 are symmetrically installed at both ends of said mounting  
5 portion.

1       11. The electronic device according to claim 7, wherein said  
2       light emitting module is disposed between a pair of said  
3       rotation pins.

1       12. The electronic device according to claim 7, wherein:  
2       each of said rotation pins has a fastening portion with a  
3       rectangular cross section at one end;  
4       each of said fixing brackets has a fastening groove  
5       corresponding to the shape of said rectangular cross  
6       section of said fastening portion; and  
7       said rotation pins and said fixing brackets rotate together  
8       with said fastening portion of each of said rotation pins  
9       being connected to said fastening groove of a  
10      corresponding one of said fixing brackets.